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**UTILITY  
PATENT APPLICATION  
TRANSMITTAL**

(Only for new nonprovisional applications under 37 CFR § 1.53(b))

Attorney Docket No.	1875.2100000
First Inventor	Keshab K. Parhi
Title	Pipelining of Multiplexer Loops in a Digital Circuit
Express Mail Label No.	

**APPLICATION ELEMENTS**

See MPEP chapter 600 concerning utility patent application contents.

**ADDRESS TO:**Assistant Commissioner for Patents  
Box Patent Application  
Washington, DC 20231

- |  |   |
|--|---|
| <p>1. <input checked="" type="checkbox"/> Fee Transmittal Form (e.g., PTO/SB/17)<br/>(Submit an original, and a duplicate for fee processing)</p> <p>2. <input type="checkbox"/> Applicant claims small entity status.<br/>See 37 CFR 1.27.</p> <p>3. <input checked="" type="checkbox"/> Specification [Total Pages <u>32</u>]<br/>(preferred arrangement set forth below)<br/>- Descriptive title of the Invention<br/>- Cross Reference to Related Applications<br/>- Statement Regarding Fed sponsored R &amp; D<br/>- Reference to sequence listing, a table, or a computer program listing appendix<br/>- Background of the Invention<br/>- Brief Summary of the Invention<br/>- Brief Description of the Drawings (if filed)<br/>- Detailed Description<br/>- Claim(s)<br/>- Abstract of the Disclosure</p> <p><input checked="" type="checkbox"/> Drawing(s) (35 U.S.C. 113) [Total Pages <u>26</u>]</p> <p><input checked="" type="checkbox"/> Copy of Oath or Declaration [Total Pages <u>2</u>]</p> <p>a. <input checked="" type="checkbox"/> Newly executed (original or copy)</p> <p>b. <input type="checkbox"/> Copy from a prior application (37 CFR 1.63(d))<br/>(for continuation/divisional with Box 18 completed)</p> <p>i. <input type="checkbox"/> <u>DELETION OF INVENTOR(S)</u><br/>Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR §§ 1.63(d)(2) and 1.33(b).</p> <p>6. <input checked="" type="checkbox"/> Application Data Sheet. See 37 CFR 1.76.</p> | <p>7. <input type="checkbox"/> CD-ROM or CD-R in duplicate, large table or Computer Program<br/>(Appendix)</p> <p>8. Nucleotide and/or Amino Acid Sequence Submission<br/>(if applicable, all necessary)</p> <p>a. <input type="checkbox"/> Computer Readable Form (CRF)</p> <p>b. Specification Sequence Listing on:</p> <p>i. <input type="checkbox"/> CD-ROM or CD-R (2 copies); or</p> <p>ii. <input type="checkbox"/> paper</p> <p>c. <input type="checkbox"/> Statements verifying identity of above copies</p> |
|--|---|

**ACCOMPANYING APPLICATION PARTS**

9. ☒ Assignment Papers (cover sheet & document(s))
10. ☒ 37 CFR 3.73(b) Statement (when there is an assignee) ☒ Power of Attorney
11. ☐ English Translation Document (if applicable)
12. ☒ Information Disclosure Statement (IDS)/PTO-1449 ☒ Copies of IDS Citations
13. ☐ Preliminary Amendment
14. ☒ Two Return Receipt Postcards (MPEP 503)  
(Should be specifically itemized)
15. ☐ Certified Copy of Priority Document(s)  
(if foreign priority is claimed)
16. ☐ Nonpublication Request under 35 U.S.C. 122 (b)(2)(B)(i) Applicant must attach form PTO/SB/35 or its equivalent.
17. ☒ Other: Authorization under 37 C.F.R. § 1.136(a)(3)
- ☒ Other: The name of the assignee is: Broadcom Corporation

18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76:

☐ Continuation ☐ Divisional ☐ Continuation-in-Part (CIP) of prior application No: \_\_\_\_/\_\_\_\_\_  
Prior application information: Examiner \_\_\_\_\_ Group/Art Unit: \_\_\_\_\_

For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

**19. CORRESPONDENCE ADDRESS**☒ Customer Number or Bar Code Label

Customer No. 26111

or ☐ Correspondence address below

(Insert Customer No. or Attach bar code label here)

NAME	STERNE, KESSLER, GOLDSTEIN & FOX P.L.C.				
	Attorneys at Law PATENT TRADEMARK OFFICE				
ADDRESS					
CITY		STATE		ZIP CODE	
COUNTRY		TELEPHONE		FAX	

NAME (Print/Type)	Virgil L. Beaton	Registration No. (Attorney/Agent)	47,415
SIGNATURE		Date	1/28/02

Burden Hour Statement: this form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Box Patent Application, Washington, DC 20231.

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# FEE TRANSMITTAL for FY 2002

Patent fees are subject to annual revision.

## Complete if Known

Application Number	(to be assigned)
Filing Date	(herewith)
First Named Inventor	Keshab K. Parhi
Examiner Name	(to be assigned)
Group Art Unit	(to be assigned)
Attorney Docket No.	1875.2100000

TOTAL AMOUNT OF PAYMENT (\$ 780.00)

## METHOD OF PAYMENT (check one)

1. ☐ The Commissioner is hereby authorized to charge indicated fees and credit any overpayment to:

Deposit Account Number 19-0036  
Deposit Account Name Sterne, Kessler, Goldstein & Fox P.L.L.C.

- ☐ Charge Any Additional Fee Required Under 37 CFR §§ 1.16 and 1.17

- ☐ Applicant claims small entity status See 37 CFR 1.27

2. ☒ Payment Enclosed:

- ☒ Check ☐ Credit card ☐ Money Order ☒ Other\*  
\*Charge any deficiencies or credit any overpayments in the fees or fee calculations of Parts 1, 2 and 3 below to Deposit Account No. 19-0036.

## FEE CALCULATION

### 1. BASIC FILING FEE

Large Fee Code	Entity Fee (\$)	Small Fee Code	Entity Fee (\$)	Fee Description	Fee Paid
101	740	201	370	Utility filing fee	\$740.00
106	330	206	165	Design filing fee	
107	510	207	255	Plant filing fee	
108	740	208	370	Reissue filing fee	
114	160	214	80	Provisional filing fee	
SUBTOTAL (1) (\$)					740.00

### 2. EXTRA CLAIM FEES

	Extra	Fee from below	Fee Paid
Total Claims 20 - 20** =	0	X	=
Indep. Claims 3 - 3** =	0	X	=
Multiple Dependent			=

Large Fee Code	Entity Fee (\$)	Small Fee Code	Entity Fee (\$)	Fee Description
103	18	203	9	Claims in excess of 20
102	84	202	42	Independent claims in excess of 3
104	280	204	140	Multiple dependent claim
108	84	208	42	**Reissue independent claims over original patent
110	18	210	9	**Reissue claims in excess of 20 and over original patent

SUBTOTAL (2) (\$)

\*\* or number previously paid, if greater; For Reissues, see above

## FEE CALCULATION (continued)

### 3. ADDITIONAL FEES

Large Fee Code	Entity Fee (\$)	Small Fee Code	Entity Fee (\$)	Fee Description	Fee paid
105	130	205	65	Surcharge - late filing fee or oath	
127	50	227	25	Surcharge - late provisional filing fee or cover sheet	
139	130	139	130	Non-English specification	
147	2,520	147	2,520	For filing a request for <i>ex parte</i> reexamination	
112	920*	112	920*	Requesting publication of SIR prior to Examiner action	
113	1,840*	113	1,840*	Requesting publication of SIR after Examiner action	
115	110	215	55	Extension for reply within first month	
116	400	216	200	Extension for reply within second month	
117	920	217	460	Extension for reply within third month	
118	1,440	218	720	Extension for reply within fourth month	
128	1,960	228	980	Extension for reply within fifth month	
119	320	219	160	Notice of Appeal	
120	320	220	160	Filing a brief in support of an appeal	
121	280	221	140	Request for oral hearing	
138	1,510	138	1,510	Petition to institute a public use proceeding	
140	110	240	55	Petition to revive - unavoidable	
141	1,280	241	640	Petition to revive - unintentional	
142	1,280	242	640	Utility issue fee (or reissue)	
143	460	243	230	Design issue fee	
144	620	244	310	Plant issue fee	
122	130	122	130	Petitions to the Commissioner	
123	130	123	130	Petitions related to provisional applications	
126	180	126	180	Submission of Information Disclosure Stmt	
581	40	481	40	Recording each patent assignment per property (times number of properties)	\$40.00
146	740	246	370	Filing a submission after final rejection (37 CFR 1.129(a))	
149	740	249	370	For each additional invention to be examined (37 CFR 1.129(b))	
179	740	279	370	Request for Continued Examination (RCE)	
169	900	169	900	Request for expedited examination of a design application	

Other fee (specify):

Other fee (specify):

\*Reduced by Basic Filing Fee Paid

SUBTOTAL (3) (\$ 40.00)

## SUBMITTED BY

## Complete (if applicable)

Name (Print/Type)	Virgil L. Beaston	Registration No. (Attorney/Agent)	47,415	Telephone	202-371-2600
Signature	Virgil L. Beaston	Date	1/28/02		

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

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**STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.**

ATTORNEYS AT LAW

1100 NEW YORK AVENUE, N.W. • WASHINGTON, D.C. 20005-3934

PHONE (202) 371-2600 • FACSIMILE (202) 371-2540 • www.skpf.com

**DUPLICATE**

ROBERT GREENE STERNE  
EDWARD J. KESSLER  
JORGE A. GOLDSTEIN  
SAMUEL L. FOX\*\*\*  
DAVID K.S. CORNWELL  
ROBERT W. ESMOND  
TRACY-GENE G. DURKIN  
MICHELE A. CIMBALA  
MICHAEL B. RAY  
ROBERT E. SOKOHL  
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MICHAEL O. LEE  
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LINDA E. ALCORN  
ROBERT C. MILLONIG  
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JUDITH U. KIM  
TIMOTHY J. SHEA, JR.  
PATRICK E. GARRETT  
JEFFREY T. HELVEY\*  
HEIDI L. KRAUS  
JEFFREY R. KURIN  
PATRICK D. O'BRIEN  
LAWRENCE B. BUGAISKY  
CRYSTAL D. SAYLES

EDWARD W. YEE  
ALBERT L. FERRO\*  
DONALD R. BANOWIT  
PETER A. JACKMAN  
MOLLY A. MCCALL  
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AARON L. SCHWARTZ\*\*

\*LIMITED TO MATTERS  
AND PROCEEDINGS BEFORE  
FEDERAL COURTS & AGENCIES  
\*\*REGISTERED PATENT AGENT  
\*\*\*SENIOR COUNSEL

January 28, 2002

WRITER'S DIRECT NUMBER:  
(202) 312-7271

INTERNET ADDRESS:  
vbeaston@skpf.com

Commissioner for Patents  
Washington, D.C. 20231

**Box Patent Application**

Re: U.S. Non-Provisional Utility Patent Application under 37 C.F.R. § 1.53(b)  
Appl. No. (to be assigned); Filed: (herewith)  
For: **Pipelining of Multiplexer Loops in a Digital Circuit**  
Inventor: Keshab K. Parhi  
Our Ref: 1875.2100000

Sir:

The following documents are forwarded herewith for appropriate action by the U.S.  
Patent and Trademark Office:

1. PTO Fee Transmittal (Form PTO/SB/17) (in duplicate);
2. PTO Utility Patent Application Transmittal (Form PTO/SB/05);
3. U.S. Utility Patent Application entitled:

**Pipelining of Multiplexer Loops in a Digital Circuit**

and naming as inventor:

**Keshab K. Parhi**

2002-01-28

Commissioner for Patents  
January 28, 2002  
Page 2

the application consisting of:


- a. A specification containing:
  - i. 26 pages of description prior to the claims;
  - ii. 5 pages of claims (20 claims, 3 independent);
  - iii. a one (1) page abstract;
- b. Twenty-six (26) sheets of drawings: (Figures 1-14, 15A-15B, and 16-28);
- c. A copy of an original, executed Declaration; and
- d. An Application Data Sheet (37 C.F.R. § 1.76);
4. Authorization to Treat a Reply As Incorporating An Extension of Time Under 37 C.F.R. § 1.136(a)(3) (*in duplicate*);
5. Recordation Form Cover Sheet;
6. A copy of an original, executed Assignment to **Broadcom Corporation**, recordation of which is hereby respectfully requested;
7. A copy of an original executed Power of Attorney from Assignee;
8. A copy of an original executed Certificate under 37 C.F.R. § 3.73(b) from Assignee with a copy of the Assignment attached;
9. An Information Disclosure Statement (IDS) (*in duplicate*);
10. Form PTO-1449 (2 pages) with five accompanying documents;
11. Our Check No. 34005 for \$ 780.00 to cover:
  - \$ 740.00 Filing fee for patent application;
  - \$ 40.00 Assignment recordation fee; and
12. Two (2) return postcards.

Commissioner for Patents  
January 28, 2002  
Page 3

It is respectfully requested that, of the two attached postcards, one be stamped with the filing date of these documents and returned to our courier, and the other prepaid postcard be stamped with the filing date and unofficial application number and returned as soon as possible. The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036. A duplicate copy of this letter is enclosed.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

  
Virgil L. Beaton  
Attorney for Applicant  
Registration No. 47,415

VLB/sjc  
P:\USERS\VBEASTON\1875 2100000\APP CVR  
SKGF Rev. 1/22/02 mac

2005-01-01 09:00